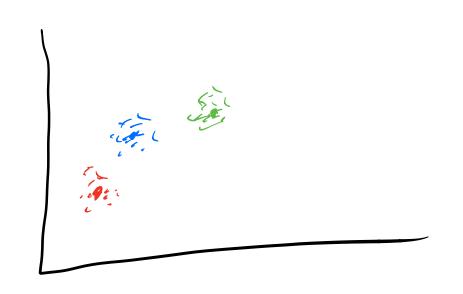
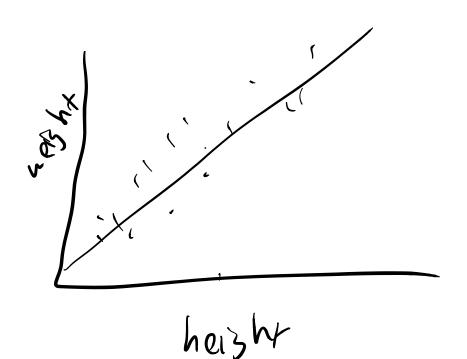
Regression

Ecological correlation
news we expect greater
correlation in a bootute
value arrors are rayes of
groups than arrors ind.
data points.



take some X and predict of. we use our existing (x,y) data for "learn" how to do this through namy sd, correlation



Procedure

- 1. Get all summary
 Statistics for x, y
 (moun, s2x, s2y, corr).
- 2. Given a ner X
- 3. Convert X to SU

$$2su = x - avg(x)$$

$$\frac{Sd_{x}}{Sd_{x}}$$

- 4. Multiply Xsu by correlation $S = X_{SU} \cdot Y$
 - 5. Convert out of SU into y s. Sdy tavyy

All together

Thew-augx

Sdx

Sdx

Cirear assumption

1) Linear, no outliers

2) x,y normal

3) homoseedasticity

Regression effect well-edict close to menn